

519, 815
Rec'd PCT/PTO 29 DEC 2004

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 January 2004 (15.01.2004)

PCT

(10) International Publication Number
WO 2004/005906 A1

(51) International Patent Classification⁷: **G01N 23/223**

(21) International Application Number:
PCT/IT2003/000404

(22) International Filing Date: 27 June 2003 (27.06.2003)

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data:
TO2002A000575 2 July 2002 (02.07.2002) IT

(71) Applicants (for all designated States except US): ENTE PER LE NUOVE TECNOLOGIE, L'ENERGIA E L'AMBIENTE (ENEA) [IT/IT]; Lungotevere Thaon di Revel, 76, I-00196 Roma (IT). FIN TECH S.R.L. [IT/IT]; Via Milazzo, 8, I-33100 Udine (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BALDACCHINI, Giuseppe [IT/IT]; Via G. Quattrucci, 246, I-00046 Grottaferrata (IT). MONTEREALI, Rosa, Maria [IT/IT]; Via A. Cassani, 39, I-00046 Grottaferrata (IT). BONFIGLI,

Francesca [IT/IT]; Via Delle Tirieme, 12, I-00121 Ostia Lido (IT). FLORA, Francesco [IT/IT]; Via Fosso del Portone, 6, I-00040 Montecompatri (IT). PACE, Angelo [IT/IT]; Via Donatello, 3, I-00034 Colleferro (IT). FAENOV, Anatoly, Yakovlevich [RU/RU]; Leningradsky pr. 74-6-33, Moscow (RU). PIKUZ, Tatiana [RU/RU]; Akademika Anohina St. 2, 38-3-452, Moscow (RU). REALE, Lucia [IT/IT]; Via Vicinale San Marco, 2, I-00040 Monteporzio Catone (IT).

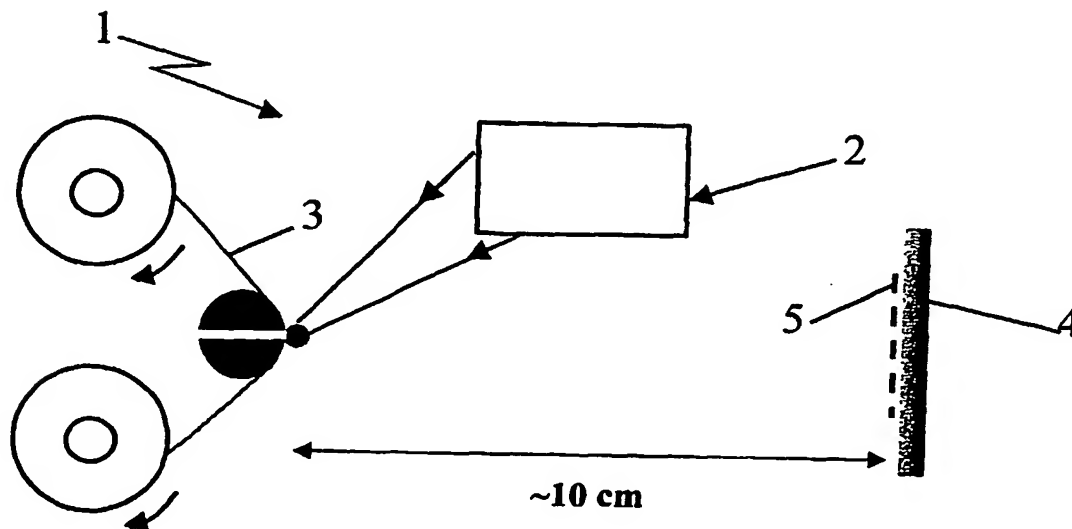
(74) Agents: JORIO, Paolo et al.; c/o Studio Torta S.r.l., Via Viotti, 9, I-10121 Torino (IT).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

[Continued on next page]

(54) Title: A METHOD FOR DETECTION OF MICROMETRIC AND SUB-MICROMETRIC IMAGES BY MEANS OF IRRADIATION OF A MASK OR OF A BIOLOGICAL SPECIMEN WITH IONIZING RADIATION



(57) Abstract: Described herein is a method for detection of micrometric and sub-micrometric images with high resolution and high dynamics of contrast, and suited for enabling microradiography, x-ray microscopy and the production of coloured configurations in dielectric materials. The method consists of radiation of energy comprised between 20 and 2000 eV for irradiating a mask or a biological specimen and use of a detector consisting of LiF in the form of a crystal or a film. The power of the radiation released in the LiF detector during exposure is preferably $\geq 10 \text{ mW/cm}^2$.

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